

WEST Search History

DATE: Tuesday, June 21, 2005

| Hide? | <u>Set</u> <u>Name</u> | <u>Query</u> | <u>Hit</u> <u>Count</u> |
|--------------------------|--|--|----------------------------|
| | <i>DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i> | | |
| <input type="checkbox"/> | L13 | L12 and composite\$ | 18 |
| <input type="checkbox"/> | L12 | L11 and (skin or mouth or vagina\$ or nose or nasal\$ or cutaneous\$ or dermal\$) | 49 |
| <input type="checkbox"/> | L11 | L10 and (antimicrobial or antiviral or antiinflammatory or antiseptic or antihistamine or anesthetic or disinfectant or keratolytic or analgesic or (anti migraine) or antifungal or sweetner or flavor\$ or diagnostic\$) | 54 |
| <input type="checkbox"/> | L10 | L9 and (mucosal\$ or cutaneous\$ or skin or dermal\$) | 54 |
| <input type="checkbox"/> | L9 | L8 and (amlexanox or triclosan or hirudin or (plasmid) or lidocaine or benzocaine or dyclonine or benzodiazepine) | 64 |
| <input type="checkbox"/> | L8 | L7 and Eudragit | 148 |
| <input type="checkbox"/> | L7 | L6 and methacryl\$ and acryl\$ and copolymer\$ | 1665 |
| <input type="checkbox"/> | L6 | L5 and (noveon or carbomer or ((polyacrylic acid) and ((polyalkenyl ether) or (divinyl glycol)))) | 5465 |
| <input type="checkbox"/> | L5 | L4 and (ethanol or (propylene glycol) or glycerin or (polyethylene glycol)) | 5934 |
| <input type="checkbox"/> | L4 | L3 and solvent | 6224 |
| <input type="checkbox"/> | L3 | L2 and (pH sensitive) and (film form\$) | 7917 |
| <input type="checkbox"/> | L2 | L1 and (water insoluble) and (swell\$) and (mucoadhes\$ or bioadhes\$ or adhes\$) | 9160 |
| <input type="checkbox"/> | L1 | (drug delivery) and gel\$ | 181634 |

END OF SEARCH HISTORY

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptau153cxa

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

| | | | |
|--------------|----|--------|--|
| NEWS | 1 | | Web Page URLs for STN Seminar Schedule - N. America |
| NEWS | 2 | | "Ask CAS" for self-help around the clock |
| NEWS | 3 | FEB 28 | PATDPAFULL - New display fields provide for legal status data from INPADO |
| NEWS | 4 | FEB 28 | BABS - Current-awareness alerts (SDIs) available |
| NEWS | 5 | MAR 02 | GBFULL: New full-text patent database on STN |
| NEWS | 6 | MAR 03 | REGISTRY/ZREGISTRY - Sequence annotations enhanced |
| NEWS | 7 | MAR 03 | MEDLINE file segment of TOXCENTER reloaded |
| NEWS | 8 | MAR 22 | KOREAPAT now updated monthly; patent information enhanced |
| NEWS | 9 | MAR 22 | Original IDE display format returns to REGISTRY/ZREGISTRY |
| NEWS | 10 | MAR 22 | PATDPASPC - New patent database available |
| NEWS | 11 | MAR 22 | REGISTRY/ZREGISTRY enhanced with experimental property tags |
| NEWS | 12 | APR 04 | EPFULL enhanced with additional patent information and new fields |
| NEWS | 13 | APR 04 | EMBASE - Database reloaded and enhanced |
| NEWS | 14 | APR 18 | New CAS Information Use Policies available online |
| NEWS | 15 | APR 25 | Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAPLUS and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications. |
| NEWS | 16 | APR 28 | Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAPLUS |
| NEWS | 17 | MAY 23 | GBFULL enhanced with patent drawing images |
| NEWS | 18 | MAY 23 | REGISTRY has been enhanced with source information from CHEMCATS |
| NEWS | 19 | JUN 06 | STN Patent Forums to be held in June 2005 |
| NEWS | 20 | JUN 06 | The Analysis Edition of STN Express with Discover! (Version 8.0 for Windows) now available |
| NEWS | 21 | JUN 13 | RUSSIAPAT: New full-text patent database on STN |
| NEWS | 22 | JUN 13 | FRFULL enhanced with patent drawing images |
| NEWS | 23 | JUN 20 | MEDICONF to be removed from STN |
| NEWS EXPRESS | | | JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005 |
| NEWS HOURS | | | STN Operating Hours Plus Help Desk Availability |
| NEWS INTER | | | General Internet Information |
| NEWS LOGIN | | | Welcome Banner and News Items |
| NEWS PHONE | | | Direct Dial and Telecommunication Network Access to STN |
| NEWS WWW | | | CAS World Wide Web Site (general information) |

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific

research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:58:16 ON 21 JUN 2005

=> ile caplus uspatfull japio efull medline biosis embase scisearch
ILE IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

| | | |
|--|------------|---------|
| => file caplus uspatfull japio efull medline biosis embase scisearch | | |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 0.42 | 0.42 |

FILE 'CAPLUS' ENTERED AT 15:59:16 ON 21 JUN 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATFULL' ENTERED AT 15:59:16 ON 21 JUN 2005
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'JAPIO' ENTERED AT 15:59:16 ON 21 JUN 2005
COPYRIGHT (C) 2005 Japanese Patent Office (JPO)- JAPIO

FILE 'EPFULL' ENTERED AT 15:59:16 ON 21 JUN 2005
COPYRIGHT (C) 2005 European Patent Office / FIZ Karlsruhe

FILE 'MEDLINE' ENTERED AT 15:59:16 ON 21 JUN 2005

FILE 'BIOSIS' ENTERED AT 15:59:16 ON 21 JUN 2005
Copyright (c) 2005 The Thomson Corporation

FILE 'EMBASE' ENTERED AT 15:59:16 ON 21 JUN 2005
COPYRIGHT (C) 2005 Elsevier Inc. All rights reserved.

FILE 'SCISEARCH' ENTERED AT 15:59:16 ON 21 JUN 2005
Copyright (c) 2005 The Thomson Corporation

=> s (drug delivery) and gel?
1 FILES SEARCHED...

L1 49118 (DRUG DELIVERY) AND GEL?

=> s l1 and (water insoluble) and (mucoadhesiv? or bioadhes? or adhesiv?) and (swell?) and polymer?

L2 847 L1 AND (WATER INSOLUBLE) AND (MUCOADHESIV? OR BIOADHES? OR ADHESIV?) AND (SWELL?) AND POLYMER?

=> s L2 and (pH sensitive) and (film form?)
4 FILES SEARCHED...

L3 21 L2 AND (PH SENSITIVE) AND (FILM FORM?)

=> s l3 and solvent?

L4 16 L3 AND SOLVENT?

=> d l4 1-16 ibib abs

L4 ANSWER 1 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2005:125479 USPATFULL
TITLE: Medical device with multiple coating layers
INVENTOR(S): Wang, Xingwu, Wellsville, NY, UNITED STATES
Greenwald, Howard J., Rochester, NY, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|---|------|---------------|
| PATENT INFORMATION: | US 2005107870 | A1 | 20050519 |
| APPLICATION INFO.: | US 2004-923579 | A1 | 20040820 (10) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 2004-914691, filed on 9 Aug 2004, PENDING Continuation-in-part of Ser. No. US 2004-887521, filed on 7 Jul 2004, PENDING Continuation-in-part of Ser. No. US 2004-867517, filed on 14 Jun 2004, PENDING Continuation-in-part of Ser. No. US 2004-810916, filed on 26 Mar 2004, GRANTED, Pat. No. US 6846985 Continuation-in-part of Ser. No. US 2004-808618, filed on 24 Mar 2004, PENDING Continuation-in-part of Ser. No. US 2004-786198, filed on 25 Feb 2004, PENDING Continuation-in-part of Ser. No. US 2004-780045, filed on 17 Feb 2004, PENDING Continuation-in-part of Ser. No. US 2003-747472, filed on 29 Dec 2003, PENDING Continuation-in-part of Ser. No. US 2003-744543, filed on 22 Dec 2003, PENDING Continuation-in-part of Ser. No. US 2003-442420, filed on 21 May 2003, PENDING Continuation-in-part of Ser. No. US 2003-409505, filed on 8 Apr 2003, GRANTED, Pat. No. US 6815609 | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | HOWARD J. GREENWALD P.C., 349 W. COMMERCIAL STREET SUITE 2490, EAST ROCHESTER, NY, 14445-2408, US | | |
| NUMBER OF CLAIMS: | 62 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 54 Drawing Page(s) | | |
| LINE COUNT: | 18628 | | |

AB An implantable medical device that contains two coating layers disposed above at least one of its surfaces. The first coating layer contains a biologically active material; and the second coating layer contains a **polymeric** material and nanomagnetic material disposed on the first coating layer; the second coating layer is substantially free of the biologically active material. The nanomagnetic material has a saturation magnetization of from about 2 to about 3000 electromagnetic units per cubic centimeter, and it contains nanomagnetic particles with an average particle size of less than about 100 nanometers; the average coherence length between adjacent nanomagnetic particles is less than 100 nanometers.

L4 ANSWER 2 OF 16 USPATFULL on STM

ACCESSION NUMBER: 2005:92457 USPATFULL
TITLE: Medical device with low magnetic susceptibility
INVENTOR(S): Wang, Xingwu, Wellsville, NY, UNITED STATES
Greenwald, Howard J., Rochester, NY, UNITED STATES
Gunderman, Robert D., Honeyoye Falls, NY, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|---|------|---------------|
| PATENT INFORMATION: | US 2005079132 | A1 | 20050414 |
| APPLICATION INFO.: | US 2004-914691 | A1 | 20040809 (10) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 2004-887521, filed on 7 Jul 2004, PENDING Continuation-in-part of Ser. No. US 2004-867517, filed on 14 Jun 2004, PENDING Continuation-in-part of Ser. No. US 2004-810916, filed | | |

on 26 Mar 2004, GRANTED, Pat. No. US 6846985
Continuation-in-part of Ser. No. US 2004-808618, filed
on 24 Mar 2004, PENDING Continuation-in-part of Ser.
No. US 2004-786198, filed on 25 Feb 2004, PENDING
Continuation-in-part of Ser. No. US 2004-780045, filed
on 17 Feb 2004, PENDING Continuation-in-part of Ser.
No. US 2003-747472, filed on 29 Dec 2003, PENDING
Continuation-in-part of Ser. No. US 2003-744543, filed
on 22 Dec 2003, PENDING Continuation-in-part of Ser.
No. US 2003-442420, filed on 21 May 2003, PENDING
Continuation-in-part of Ser. No. US 2003-409505, filed
on 8 Apr 2003, GRANTED, Pat. No. US 6815609

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HOWARD J. GREENWALD P.C., 349 W. COMMERCIAL STREET
SUITE 2490, EAST ROCHESTER, NY, 14445-2408, US
NUMBER OF CLAIMS: 127
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 52 Drawing Page(s)
LINE COUNT: 17912

AB An assembly with a substrate, nanomagnetic material and magnetoresistive material. The nanomagnetic material has a saturation magnetization of from about 2 to about 3000 electromagnetic units per cubic centimeter; and it contains nanomagnetic particles with an average particle size of less than about 100 nanometers. The average coherence length between adjacent nanomagnetic particles is less than 100 nanometers.

L4 ANSWER 3 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2005:30367 USPATFULL
TITLE: Medical device with low magnetic susceptibility
INVENTOR(S): Wang, Xingwu, Wellsville, NY, UNITED STATES
Greenwald, Howard Jay, Rochester, NY, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|---|------|---------------|
| PATENT INFORMATION: | US 2005025797 | A1 | 20050203 |
| APPLICATION INFO.: | US 2004-887521 | A1 | 20040707 (10) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 2004-867517, filed on 14 Jun 2004, PENDING Continuation-in-part of Ser. No. US 2004-810916, filed on 26 Mar 2004, PENDING Continuation-in-part of Ser. No. US 2004-808618, filed on 24 Mar 2004, PENDING Continuation-in-part of Ser. No. US 2004-786198, filed on 25 Feb 2004, PENDING Continuation-in-part of Ser. No. US 2004-780045, filed on 17 Feb 2004, PENDING Continuation-in-part of Ser. No. US 2003-747472, filed on 29 Dec 2003, PENDING Continuation-in-part of Ser. No. US 2003-744543, filed on 22 Dec 2003, PENDING Continuation-in-part of Ser. No. US 2003-442420, filed on 21 May 2003, PENDING Continuation-in-part of Ser. No. US 2003-409505, filed on 8 Apr 2003, GRANTED, Pat. No. US 6815609 | | |

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HOWARD J. GREENWALD P.C., 349 W. COMMERCIAL STREET
SUITE 2490, EAST ROCHESTER, NY, 14445-2408
NUMBER OF CLAIMS: 137
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 42 Drawing Page(s)
LINE COUNT: 17461

AB An assembly that contains a medical device and biological material within which the medical device is disposed. The assembly has a magnetic susceptibility within the range of plus or minus 1+10.sup.-3

centimeter-gram-seconds

L4 ANSWER 4 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2005:22862 USPATFULL
TITLE: Drug-eluting biodegradable stent
INVENTOR(S): Sung, Hsing-Wen, Hsinchu, TAIWAN, PROVINCE OF CHINA
Chen, Mei-Chin, Taipei County, TAIWAN, PROVINCE OF CHINA
Tu, Peter Y., Irvine, CA, UNITED STATES
Tu, Hosheng, Newport Beach, CA, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|--|------|---------------|
| PATENT INFORMATION: | US 2005019404 | A1 | 20050127 |
| APPLICATION INFO.: | US 2004-916170 | A1 | 20040811 (10) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 2003-610391, filed on 30 Jun 2003, PENDING | | |

| | NUMBER | DATE |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 2003-518050P | 20031107 (60) |
| | US 2004-547935P | 20040226 (60) |
| | US 2004-565438P | 20040426 (60) |
| | US 2004-574501P | 20040526 (60) |
| | US 2004-585775P | 20040706 (60) |

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HOSHENG TU, 15 RIEZ, NEWPORT BEACH, CA, 92657-0116
NUMBER OF CLAIMS: 26
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 19 Drawing Page(s)
LINE COUNT: 2699

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a drug-loaded biodegradable stent and methods for treating vulnerable plaques of a patient comprising a plurality of layers or zones, each layer or zone comprising its own specific biodegradation rate and its specific drug loading characteristics. In one embodiment, the layers and zones are configured and arranged, in combination, radially, circumferentially and longitudinally.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2004:321764 USPATFULL
TITLE: Therapeutic assembly
INVENTOR(S): Wang, Xingwu, Wellsville, NY, UNITED STATES
Greenwald, Howard J., Rochester, NY, UNITED STATES
Lanzafame, John, Victor, NY, UNITED STATES
Weiner, Michael L., Webster, NY, UNITED STATES
Connelly, Patrick R., Rochester, NY, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|---|------|---------------|
| PATENT INFORMATION: | US 2004254419 | A1 | 20041216 |
| APPLICATION INFO.: | US 2004-867517 | A1 | 20040614 (10) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 2004-810916, filed on 26 Mar 2004, PENDING Continuation-in-part of Ser. No. US 2004-808618, filed on 24 Mar 2004, PENDING Continuation-in-part of Ser. No. US 2004-786198, filed on 25 Feb 2004, PENDING Continuation-in-part of Ser. No. US 2004-780045, filed on 17 Feb 2004, PENDING | | |

Continuation-in-part of Ser. No. US 2003-747472, filed on 29 Dec 2003, PENDING Continuation-in-part of Ser. No. US 2003-744543, filed on 22 Dec 2003, PENDING Continuation-in-part of Ser. No. US 2003-409505, filed on 8 Apr 2003, PENDING Continuation-in-part of Ser. No. US 2003-442420, filed on 21 May 2003, PENDING

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HOWARD J. GREENWALD P.C., 349 W. COMMERCIAL STREET
SUITE 2490, EAST ROCHESTER, NY, 14445-2408
NUMBER OF CLAIMS: 175
EXEMPLARY CLAIM: CLM-1-177
NUMBER OF DRAWINGS: 40 Drawing Page(s)
LINE COUNT: 16208

AB A therapeutic assembly that contains a therapeutic agent, a cytotoxic radioactive material, and a nanomagnetic material with nanomagnetic particles. The nanomagnetic particles have an average particle size of less than about 100 nanometers; and the average coherence length between adjacent nanomagnetic particles is less than 100 nanometers. The nanomagnetic material has a saturation magnetization of from about 2 to about 3000 electromagnetic units per cubic centimeter, a phase transition temperature of from about 40 to about 200 degrees Celsius, and a saturation magnetization of from about 2 to about 3,000 electromagnetic units per cubic centimeter

L4 ANSWER 6 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2004:308094 USPATFULL
TITLE: Covalent and non-covalent crosslinking of hydrophilic **polymers** and **adhesive** compositions prepared therewith

INVENTOR(S): Feldstein, Mikhail M., Moscow, RUSSIAN FEDERATION
Bairamov, Danir F., Moscow, RUSSIAN FEDERATION
Plate, Nicolai A., Moscow, RUSSIAN FEDERATION
Kulchikhin, Valery G., Moscow, RUSSIAN FEDERATION
Singh, Parminder, San Francisco, CA, UNITED STATES
Cleary, Gary W., Los Altos Hills, CA, UNITED STATES

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2004242770 | A1 | 20041202 |
| APPLICATION INFO.: | US 2004-825083 | A1 | 20040414 (10) |

| | NUMBER | DATE |
|-----------------------|---|---------------|
| PRIORITY INFORMATION: | US 2003-463627P | 20030416 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | REED & EBERLE LLP, 800 MENLO AVENUE, SUITE 210, MENLO PARK, CA, 94025 | |
| NUMBER OF CLAIMS: | 90 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 13 Drawing Page(s) | |
| LINE COUNT: | 3505 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A **water-insoluble**, hydrophilic **adhesive polymer** is provided, wherein the **polymer** is prepared by **polymerization** of a composition consisting of a hydrophilic monomer and a dual-function monomer that both (a) undergoes **polymerization** with the hydrophilic monomer and (b) provides crosslinks in the **polymer** product. **Water-insoluble**, hydrophilic **adhesive polymer** blends are also provided, which are free of covalent crosslinks. The

polymers are useful in hydrogel and bioadhesive compositions, which find utility as drug delivery systems (e.g., topical, transdermal, transmucosal, iontophoretic), medical skin coverings, wound dressings and wound healing products, biomedical electrodes, and tooth whitening stripes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 7 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2004:268745 USPATFULL
 TITLE: Novel nanomagnetic particles
 INVENTOR(S): Wang, Xingwu, Wellsville, NY, UNITED STATES
 Greenwald, Howard J., Rochester, NY, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|---|------|---------------|
| PATENT INFORMATION: | US 2004210289 | A1 | 20041021 |
| APPLICATION INFO.: | US 2004-808618 | A1 | 20040324 (10) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 2003-366082, filed on 13 Feb 2003, PENDING Continuation-in-part of Ser. No. US 2002-324773, filed on 18 Dec 2002, PENDING Continuation-in-part of Ser. No. US 2002-90553, filed on 4 Mar 2002, PENDING Continuation-in-part of Ser. No. US 2002-229183, filed on 26 Aug 2002, PENDING Continuation-in-part of Ser. No. US 2002-242969, filed on 13 Sep 2002, PENDING Continuation-in-part of Ser. No. US 2002-260247, filed on 30 Sep 2002, GRANTED, Pat. No. US 6673999 Continuation-in-part of Ser. No. US 2002-273738, filed on 18 Oct 2002, PENDING Continuation-in-part of Ser. No. US 2002-303264, filed on 25 Nov 2002, GRANTED, Pat. No. US 6713671 Continuation-in-part of Ser. No. US 2002-313847, filed on 7 Dec 2002, PENDING Continuation-in-part of Ser. No. US 2002-303264, filed on 25 Nov 2002, GRANTED, Pat. No. US 6713671 | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | HOWARD J. GREENWALD P.C., 349 W. COMMERCIAL STREET SUITE 2490, EAST ROCHESTER, NY, 14445-2408 | | |
| NUMBER OF CLAIMS: | 98 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 51 Drawing Page(s) | | |
| LINE COUNT: | 11684 | | |

AB A composition containing nanomagnetic particles. The, nanomagnetic particles have an average particle size of less than about 100 nanometers, a saturation magnetization of from about 2 to about 2,000 electromagnetic units per cubic centimeter, a phase transition temperature of from about 40 to about 200 degrees Celsius, and a squareness of from about 0.05 to about 1.0; the average coherence length between adjacent nanomagnetic particles is less than about 100 nanometers; and the nanomagnetic particles are at least triatomic.

L4 ANSWER 8 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2004:189788 USPATFULL
 TITLE: Oral extended release tablets and methods of making and using the same
 INVENTOR(S): Noack, Robert M., Grand Rapids, MI, UNITED STATES
 Heimlich, John M., Portage, MI, UNITED STATES
 Lee, Ernest John, Kalamazoo, MI, UNITED STATES

| NUMBER | KIND | DATE |
|--------|------|------|
| ----- | | |

PATENT INFORMATION: US 2004146556 A1 20040729
APPLICATION INFO.: US 2003-696044 A1 20031029 (10)

| | NUMBER | DATE |
|--|---|---------------|
| PRIORITY INFORMATION: | US 2002-422418P | 20021030 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | Karen B. King, Pharmacia Corporation, P. O. Box 1027, St. Louis, MO, 63006 | |
| NUMBER OF CLAIMS: | 31 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 5 Drawing Page(s) | |
| LINE COUNT: | 1144 | |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. | | |

AB The present invention is directed to oral dosage forms for extended release, including a dosage form for pH independent extended release, of at least one drug to a subject. The present invention is also directed to methods of making and using the dosage forms to treat or prevent a subject for various conditions. Specific extended release formulations of crystalline clindamycin free base are also provided. The crystalline clindamycin free base oral formulations of the present invention provide a means for treating or preventing gram-positive bacterial infections with a minimal number of treatments per day, potentially, as little as once or twice per day.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 9 OF 16 USPATFULL on STN
ACCESSION NUMBER: 2004:82328 USPATFULL
TITLE: Surface dissolution and/or bulk erosion controlled
release compositions and devices
INVENTOR(S): Shefer, Adi, East Brunswick, NJ, UNITED STATES
Shefer, Samuel David, East Brunswick, NJ, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|--|------|---------------|
| PATENT INFORMATION: | US 2004062778 | A1 | 20040401 |
| APPLICATION INFO.: | US 2002-255289 | A1 | 20020926 (10) |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | Diane Dunn McKay, Esq., Mathews, Collins, Shepherd & McKay, P.A., 100 Thanet Circle, Suite 306, Princeton, NJ, 08540 | | |
| NUMBER OF CLAIMS: | 94 | | |
| EXEMPLARY CLAIM: | 1 | | |
| LINE COUNT: | 2102 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a controlled release system comprising matrix compositions which control the lag time and release rate of the composition, as well as pharmaceutical and other active ingredients included in the composition, through surface dissolution and/or bulk erosion of the system. The controlled release system can be used to target and control the release of active ingredients onto certain regions of the gastrointestinal tract including the stomach and the small intestine. The matrix compositions of the present invention can be comprised of the following components: a wax material, fat material, water sensitive material and surface active material.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 10 OF 16 USPATFULL on STN
ACCESSION NUMBER: 2003:219333 USPATFULL

TITLE: Responsive microgel and methods related thereto
INVENTOR(S): Bromberg, Lev E., Swampscott, MA, UNITED STATES
Temchenko, Marina, Swampscott, MA, UNITED STATES

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2003152623 | A1 | 20030814 |
| APPLICATION INFO.: | US 2002-298808 | A1 | 20021118 (10) |

| | NUMBER | DATE |
|-----------------------|---|---------------|
| PRIORITY INFORMATION: | US 2002-352200P | 20020129 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | Mathews, Collins, Shepherd & McKay, P.A., Suite 306, 100 Thanet Circle, Princeton, NJ, 08540 | |
| NUMBER OF CLAIMS: | 20 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 16 Drawing Page(s) | |
| LINE COUNT: | 3784 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A responsive microgel is provided which responds volumetrically and reversibly to a change in one or more aqueous conditions selected from the group consisting of (temperature, pH, and ionic conditions) comprised of an ionizable network of covalently cross-linked homopolymeric ionizable monomers wherein the ionizable network is covalently attached to an amphiphilic copolymer to form a plurality of `dangling chains` and wherein the `dangling chains` of amphiphilic copolymer form immobile micelle-like aggregates in aqueous solution. A responsive microgel is further provided that comprises at least one therapeutic entity and delivers a substantially linear and sustained release of the therapeutic entity under physiological conditions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 11 OF 16 USPATFULL on STN
ACCESSION NUMBER: 2002:258475 USPATFULL
TITLE: **pH-sensitive mucoadhesive
film-forming gels** and
wax-film composites suitable for topical and mucosal
delivery of molecules
INVENTOR(S): Mumper, Russell, Lexington, KY, UNITED STATES
Jay, Michael, Lexington, KY, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 2002142042 | A1 | 20021003 |
| APPLICATION INFO.: | US 2000-748133 | A1 | 20001227 (9) |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | MCDERMOTT, WILL & EMERY, 600 13th Street, N.W., Washington, DC, 20005-3096 | | |
| NUMBER OF CLAIMS: | 62 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 12 Drawing Page(s) | | |
| LINE COUNT: | 1857 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to **pH-sensitive mucoadhesive film-forming gels** and wax-film composites suitable for topical and mucosal delivery of molecules of interest, namely active pharmaceuticals. The **gels** comprise a pharmaceutically acceptable **pH-sensitive polymer** that responds to a lowering of pH by precipitating into

films when in contact with the skin or mucosal surface. The films also comprise an **adhesive polymer** that allows the film to remain in contact with the tissue for an extended period of time. The wax-film composites comprise a bi-layer film having both the said **pH-sensitive mucoadhesive** layer to promote strong adherence to the skin and mucosal surfaces as well as a specially bonded wax layer intended to extend the adherence of the film to tissues for a prolonged period of time. The invention also relates to the use of said **pH-sensitive film-forming gels** and wax-film composites to deliver molecules of interest, such as small molecules, peptides, proteins, and nucleic acids either locally to act at the site of administration or for the absorption of said molecules of interest across biological membranes into the systemic circulation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 12 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2002:242827 USPATFULL

TITLE: **pH-sensitive mucoadhesive film-forming gels** and wax-film composites suitable for topical and mucosal delivery of molecules

INVENTOR(S): Mumper, Russell, Lexington, KY, UNITED STATES

Jay, Michael, Lexington, KY, UNITED STATES

PATENT ASSIGNEE(S): UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|---------------|
| PATENT INFORMATION: | US 2002132008 | A1 | 20020919 |
| APPLICATION INFO.: | US 2002-72320 | A1 | 20020207 (10) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 2000-748133, filed on 27 Dec 2000, PENDING | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | David L. Parker, Esq., FULBRIGHT & JAWORSKI L.L.P., Suite 2400, 600 Congress Avenue, Austin, TX, 78701 | | |
| NUMBER OF CLAIMS: | 62 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 12 Drawing Page(s) | | |
| LINE COUNT: | 1846 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to **pH-sensitive mucoadhesive film-forming gels** and wax-film composites suitable for topical and mucosal delivery of molecules of interest, namely active pharmaceuticals. The **gels** comprise a pharmaceutically acceptable **pH-sensitive polymer** that responds to a lowering of pH by precipitating into films when in contact with the skin or mucosal surface. The films also comprise an **adhesive polymer** that allows the film to remain in contact with the tissue for an extended period of time. The wax-film composites comprise a bi-layer film having both the said **pH-sensitive mucoadhesive** layer to promote strong adherence to the skin and mucosal surfaces as well as a specially bonded wax layer intended to extend the adherence of the film to tissues for a prolonged period of time. The invention also relates to the use of said **pH-sensitive film-forming gels** and wax-film composites to deliver molecules of interest, such as small molecules, peptides, proteins, and nucleic acids either locally to act at the site of administration or for the absorption of said molecules of interest across biological membranes into the systemic circulation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 13 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2002:84925 USPATFULL
TITLE: Controlled- release dosage forms of azithromycin
INVENTOR(S): Curatolo, William J., Niantic, CT, UNITED STATES
Friedman, Hylar L., Brattleboro, VT, UNITED STATES
Koresmeyer, Richard W., Old Lyme, CT, UNITED STATES
LeMott, Steven R., East Lyme, CT, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 2002044965 | A1 | 20020418 |
| APPLICATION INFO.: | US 2001-803628 | A1 | 20010309 (9) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2000-577059, filed on 22 May 2000, PENDING Division of Ser. No. US 1996-727634, filed on 4 Nov 1996, GRANTED, Pat. No. US 6068859 A 371 of International Ser. No. WO 1995-IB9400264, filed on 13 Apr 1995, UNKNOWN Continuation-in-part of Ser. No. US 1994-239094, filed on 6 May 1994, ABANDONED | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | Gregg C. Benson, Pfizer Inc., Patent Department, MS 4159, Eastern Point Road, Groton, CT, 06340 | | |
| NUMBER OF CLAIMS: | 71 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 1 Drawing Page(s) | | |
| LINE COUNT: | 3511 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A controlled-release dosage form of azithromycin having an improved side effect profile; a process for preparing the dosage form; and a method of treating a microbial infection, comprising administering azithromycin in such a controlled-release dosage form to a mammal, including a human patient, in need of such treatment.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 14 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2000:67450 USPATFULL
TITLE: Controlled-release dosage forms of Azithromycin
INVENTOR(S): Curatolo, William J., Niantic, CT, United States
Friedman, Hylar L., Brattleboro, VT, United States
Korsmeyer, Richard W., Old Lyme, CT, United States
LeMott, Steven R., East Lyme, CT, United States
PATENT ASSIGNEE(S): Pfizer Inc., New York, NY, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------------------|
| PATENT INFORMATION: | US 6068859 | | 20000530 |
| | WO 9530422 | | 19951116 |
| APPLICATION INFO.: | US 1996-727634 | | 19961104 (8) |
| | WO 1995-IB9400264 | | 19950413 |
| | | | 19961104 PCT 371 date |
| | | | 19961104 PCT 102(e) date |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1994-239094, filed on 6 May 1994, now abandoned | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Page, Thurman K. | | |
| ASSISTANT EXAMINER: | Benston, Jr., William E. | | |
| LEGAL REPRESENTATIVE: | Richardson, Peter C., Benson, Gregg C., Jones, James T. | | |

NUMBER OF CLAIMS: 76
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 3588

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A controlled-release dosage form of azithromycin having an improved side effect profile; a process for preparing the dosage form; and a method of treating a microbial infection, comprising administering azithromycin in such a controlled-release dosage form to a mammal, including a human patient, in need of such treatment.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 15 OF 16 EPFULL COPYRIGHT 2005 EPO/FIZ KA on STN

ACCESSION NUMBER: 1999:93171 EPFULL
UPDATE DATE PUBLICAT.: 20050113
DATA UPDATE DATE: 20050112
DATA UPDATE WEEK: 200502
TITLE (ENGLISH): CHROMONE ENTERIC RELEASE FORMULATION
TITLE (FRENCH): FORMULATION ENTERO-SOLUBLE DE CHROMONES
TITLE (GERMAN): CHROMONE ZUBEREITUNG ZUR ENTERALEN WIRKSTOFFFREISETZUNG
INVENTOR(S): Wigmore, Alexander James, Yew Turn, 7 Church Lane,
Lockington, Derby DE74 2TF, GB
PATENT APPLICANT(S): Hewlett Healthcare Limited, West View The Common,
Melbourne, Derbyshire DE73 1DH, GB
PATENT APPL. NUMBER: 3028041
AGENT: Bassett, Richard Simon, Eric Potter Clarkson, Park View
House, 58 The Ropewalk, Nottingham NG1 5DD, GB
AGENT NUMBER: 52833
LANGUAGE OF FILING: English
LANGUAGE OF PUBL.: English
LANGUAGE OF PROCEDURE: English
LANGUAGE OF TITLE: German; English; French
DOCUMENT TYPE: Patent
PATENT INFO TYPE: EPB1 Granted patent
PATENT INFORMATION:
PATENT INFORMATION:

| NUMBER | KIND | DATE |
|--------|------|------|
| NUMBER | KIND | DATE |

| | | |
|------------|----|----------|
| EP 1128826 | B1 | 20040121 |
|------------|----|----------|

| | | |
|--------------------|---|------------|
| DESIGNATED STATES: | WO 2000027392 | 20000518 |
| APPLICATION INFO.: | AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT | SE |
| PRIORITY INFO.: | EP 1999-954194 | A 19991109 |
| CITED PATENT LIT.: | WO 1999-GB3731 | A 19991109 |
| | GB 1998-24604 | A 19981111 |
| | WO 8500015 | A |
| | WO 9851300 | A |
| | GB 1525294 | A |
| | GB 1595220 | A |
| | US 4232012 | A |

L4 ANSWER 16 OF 16 EPFULL COPYRIGHT 2005 EPO/FIZ KA on STN

ACCESSION NUMBER: 1995:46999 EPFULL
DATA UPDATE DATE: 20021204
DATA UPDATE WEEK: 200249
TITLE (ENGLISH): CONTROLLED-RELEASE DOSAGE FORMS OF AZITHROMYCIN
TITLE (FRENCH): FORMES GALENIQUES A LIBERATION CONTROLEE DE
L'AZITHROMYCINE

TITLE (GERMAN): AZITHROMYCIN ENTHALTENDE ARZNEIVERABREICHUNGSFORMEN MIT
 GESTEUERTER WIRKSTOFFABGABE
 INVENTOR(S): CURATOLO, William J., 18 Patrick Place, Niantic, CT
 06357, US; FRIEDMAN, Hylar L., P.O. Box 1623,
 Brattleboro, VT 05301, US; KORSMEYER, Richard W., 51
 Sill Lane, Old Lyme, CT 06371, US; LE MOTT, Steven R.,
 38 Charter Oak Drive, East Lyme, CT 06333, US
 PATENT APPLICANT(S): PFIZER INC., 235 East 42nd Street, New York, N.Y.
 10017, US
 PATENT APPL. NUMBER: 200961
 AGENT: Wood, David John, PFIZER LIMITED, Ramsgate Road,
 Sandwich, Kent CT13 9NJ, GB
 AGENT NUMBER: 37881
 LANGUAGE OF FILING: English
 LANGUAGE OF PUBL.: English
 LANGUAGE OF PROCEDURE: English
 LANGUAGE OF TITLE: German; English; French
 DOCUMENT TYPE: Patent
 PATENT INFO TYPE: EPB1 Granted patent
 PATENT INFORMATION:

| NUMBER | KIND | DATE |
|-----------|------|----------|
| NUMBER | KIND | DATE |
| EP 758244 | B1 | 20011128 |

| | | |
|--------------------|---|------------|
| DESIGNATED STATES: | WO 9530422 | 19951116 |
| APPLICATION INFO.: | AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE | |
| | EP 1995-913923 | A 19950413 |
| | WO 1995-IB264 | A 19950413 |
| PRIORITY INFO.: | US 1994-239094 | A 19940506 |
| CITED PATENT LIT.: | EP 307128 | A |
| | EP 582396 | A |
| | WO 9509601 | A |